

CONNECTING THE CCSS-M & SMARTER BALANCED ASSESSMENT

Implications for Instruction: Part I

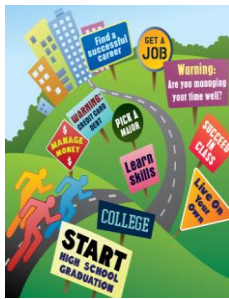
Smarter Balanced Content Specifications:
Creating a Bridge Between Standards,
Assessment, and Instruction



Nichole Hall, Assessment Coordinator
Nancy Thomas Price, Formative/Interim
Assessment Coordinator



Documents we will be using:



► **Common Core State Standards for Mathematics**

http://www.eds.illinois.gov/state/commonmath/ccss/CCSS_Math_Standards.pdf

► **SBAC Draft Math Content Specifications**

<http://www.smarterbalanced.org/wordpress/wp-content/uploads/2011/12/SBAC-Draft-Math-Content-Specifications.pdf>

► **SBAC Draft Mathematics Achievement Level Descriptors & College Readiness Policy**

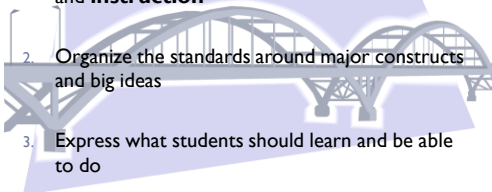
<http://www.smarterbalanced.org/achievement-level-descriptors-and-college-readiness/>

► **Cognitive Rigor Matrix Article (Hess, Carlock, Jones, and Walkup)**

<http://scholarship.mcgill.ca/doi/10.1111/j.1365-4205.2012.00629.x>

Content Specifications

1. Create a bridge between standards, assessment, and **instruction**
2. Organize the standards around major constructs and big ideas
3. Express what students should learn and be able to do

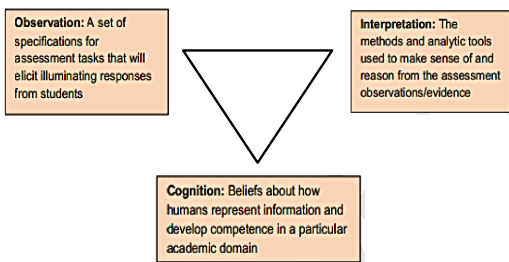


Content Specification Claims (p. 18)

Claims are the broad statements of the assessment system's learning outcomes, each of which requires **evidence** that articulates the types of data/observations that will support interpretations of competence towards achievement of the claims.



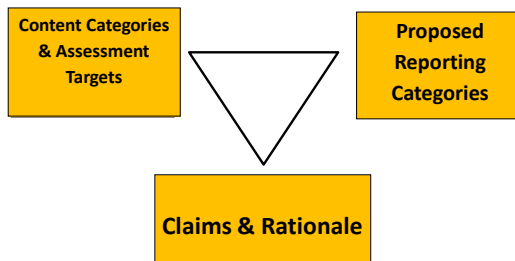
Evidence-Centered Design



The Assessment Triangle (NRC, 2001)



The Assessment Triangle as Represented in the Content Specifications (pp. 14-15)



The Assessment Triangle (NRC, 2001)



Content Specifications

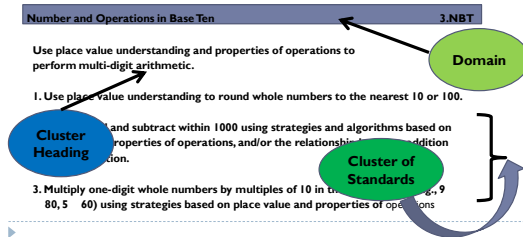
Mathematics

Claims & Assessment Targets

How to read the grade level standards

Standards – p. 5

- › Standards define what students should understand and be able to do.
- › Clusters are groups of related standards. Note that standards from different clusters may sometimes be closely related, because mathematics is a connected subject.
- › Domains are larger groups of related standards. Standards from different domains may sometimes be closely related.



Standards for Mathematical Practices

Standards pp. 6 - 8

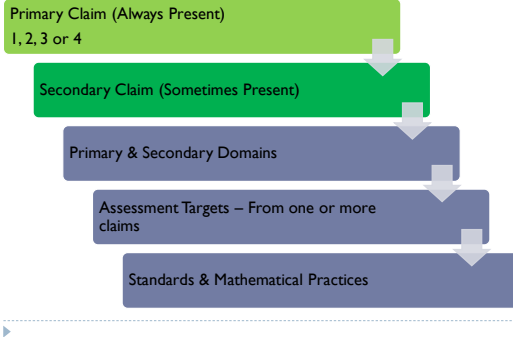
- ❖ Make sense of problems and persevere in solving them.
- ❖ Reason abstractly and quantitatively.
- ❖ Construct viable arguments and critique the reasoning of others.
- ❖ Model with mathematics
- ❖ Use appropriate tools strategically.
- ❖ Attend to precision.
- ❖ Look and make use of structure.
- ❖ Look for and express regularity in repeated reasoning

Content Specifications, p. 25

Content Specifications, p. 30

Claims
2, 3, & 4 –
Assessment
Targets
*Content
Specifications,
p. 59*

Item Development: Content Specifications



Claims 2, 3, & 4: Relevant Verbs

Problem Solving	Communicating Reasoning	Modeling & Data Analysis	
Claim 2	Claim 3	Claim 4	
<input type="checkbox"/> Understand	<input type="checkbox"/> Understand	<input type="checkbox"/> Model	<input type="checkbox"/> Summarize
<input type="checkbox"/> Solve	<input type="checkbox"/> Explain	<input type="checkbox"/> Construct	<input type="checkbox"/> Represent
<input type="checkbox"/> Apply	<input type="checkbox"/> Justify	<input type="checkbox"/> Compare	<input type="checkbox"/> Solve
<input type="checkbox"/> Describe	<input type="checkbox"/> Prove	<input type="checkbox"/> Investigate	<input type="checkbox"/> Evaluate
<input type="checkbox"/> Illustrate	<input type="checkbox"/> Derive	<input type="checkbox"/> Build	<input type="checkbox"/> Extend
<input type="checkbox"/> Interpret	<input type="checkbox"/> Assess	<input type="checkbox"/> Interpret	<input type="checkbox"/> Apply
<input type="checkbox"/> Analyze	<input type="checkbox"/> Illustrate	<input type="checkbox"/> Estimate	
	<input type="checkbox"/> Analyze	<input type="checkbox"/> Analyze	

Assessment Targets

What are the implications for instruction?

Implications for Instruction

Assessment Targets

Statements of evidence
of how proficiency on
the content standards
will be assessed

Implications for Instruction

Classroom Lesson: Identify CCSS content standards and cluster headings

Do you have a lesson that you feel aligns to the identified standards and cluster headings? If so...

Content Specifications: Find the corresponding assessment target(s)

Classroom Task: What will the evidence of a proficient student look like?

Content Specifications: Does the evidence descriptor from the assessment target(s) match? Make adjustments, if needed.

Content Specifications

**Depth of Knowledge (DOK):
Cognitive Rigor Matrix**

Cognitive Rigor Matrix p. 92-93

A "Snapshot" of the Cognitive Rigor Matrix (Hess, Carlock, Jones, & Walkup, 2009)

+ Type of Thinking (Revised Bloom)	Depth of Thinking (Webb)			
	DOK Level 1 Recall & Reproduction	DOK Level 2 Basic Skills & Concepts	DOK Level 3 Strategic Thinking & Reasoning	DOK Level 4 Extended Thinking
Remember	Recall conversations, terms, facts.			
Understand	Evaluate an expression Locate points on a grid or number on number line Solve a one-step problem Represent math relationships in words, pictures, or symbols	Specify, explain relationships Make basic inferences or logical predictions from data/observations Use models/diagrams to explain concepts Make and explain estimates	Use concepts to solve non-routine problems Use supporting evidence to justify conjectures, generalizations or connect ideas Explain reasoning when more than one response is possible Explain phenomena in terms of concepts	Relate mathematical concepts to other content areas, other domains Develop generalizations of the results obtained and the strategies used and apply them to new problem situations
Apply	Follow simple procedures Calculate, measure, apply a rule (e.g., rounding) Apply algorithms or formulas Solve linear equations Make conversions	Select a procedure and perform it Solve routine problems applying multiple concepts or decision points Retrieve information to solve a problem Translate between representations	Design investigations for a specific purpose or research question Use reasoning, planning, and supporting evidence Translate between problems & symbolic notations when not a direct translation	Initiate, design, and conduct a project that specifies a problem Identifies solution paths, solves the problem, and reports results
Analyze	Retrieve information from a table or graph to answer a question Identify a pattern/trend	Categorize data, figures Organize, order data Select appropriate graph and organize & display data Interpret data from a simple graph Extend a pattern	Compare information within or across data sets or texts Analyze and draw conclusions from data, citing evidence Construct a pattern Interpret data from complex graph	Analyze multiple sources of evidence or data sets
Evaluate			Use evidence and develop a logical argument Compare contrast solution methods Verify reasonableness	Apply understanding in a novel way, provide argument or justification for the new application
Create	Formulate ideas, concepts, problems, or perspectives related to a topic or concept	Generate conjectures or hypotheses based on observations or prior knowledge and experience	Develop an alternative solution Synthesize information within one data set	Synthesize information across multiple sources or data sets Design a model to inform and solve a practical or abstract situation

Cognitive Rigor Matrix – Karin Hess

► <http://vimeo.com/20998609>



Cognitive Rigor Matrix

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Analyze	Examine information from a table or graph to answer a question Identify a pattern/trend			
Evaluate				
Create	Formulate ideas, concepts, problems, or perspectives related to a topic or concept			

(3, 2) Bloom – 3, Webb – 2
Solve routine problem applying multiple concepts or decision points.

Level 2: Basic Skills & Concepts

Cognitive Rigor Matrix

What are the implications for instruction?

Implications for Instruction

Cognitive Rigor Matrix

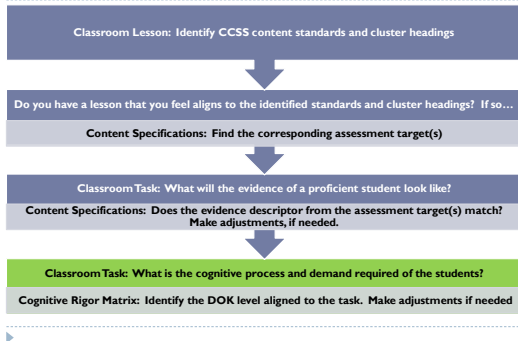
How Bloom's Taxonomy and Webb's DOK are alike, yet different.

Examination of the DOK required for different tasks

Categorization of select assignments and learning activities

SB test design and item development process

Implications for Instruction



Lesson Planning Example

Using the Content Specifications

Cluster Headings, Claims, & Assessment Targets



Cluster Headings, Claims, & Assessment Targets

Cluster C
Analyze relationships between them to solve problems and make predictions

TARGET A Description of Evidence: Tasks for this target will require students to identify and represent proportional relationships in various formats (tables, graphs, equations, diagrams, verbal descriptions) and interpret specific values in context. (See 7.G Target E for possible context.) Other tasks will require students to compute unit rates, including those associated with ratios of fractions.

Multistep problems involving ratio and percent will be assessed by tasks in Claims 2 and 4.

Looking at current lessons...

A **rate** is a form of ratio in which the two terms are in different units. For example price of wheat is \$2 for 3 Kgs, then the **rate** would be \$2 for 3 Kgs and the unit of **rate** would be \$/Kg. Similarly if a car goes 100 miles in 1.5 hour, then the **rate** is 100 miles per 1.5 hour and unit is miles/hr. Note that **ratios** are usually unit less.

Unit **rate** is a rate in which the **rate** is expressed as a quantity of 1. Simply put is **rate** which has denominator of 1. For example, if a car goes 60 miles in 1 hour, then the unit rate is 60 miles per hour. Other examples are \$5 per Kg, 5 mt per second and \$80 per barrel.

Unit price is the **rate** when it is expressed in unit currency like dollar or cent. An example is price of corn is \$2 per ounce and price of petrol is \$5 per gallon. Remember that the price is always the numerator and the unit is the denominator.

Converting rate to unit rate/price

Rate can be converted to unit rate simply by dividing the first term by second term. Consider an example:

Q1. If a car travels 45 miles in 30 min, what is the rate at which the car is travelling?

Looking at current lessons...

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Converting

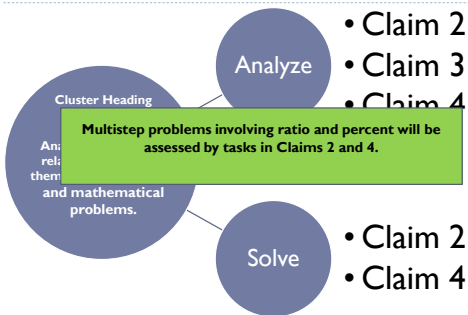
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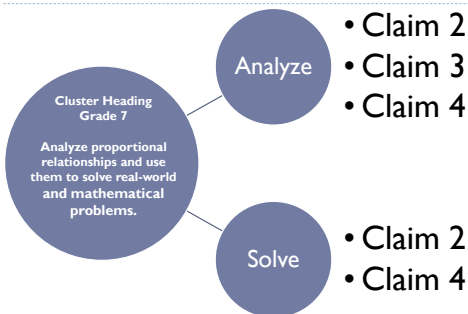
Making adjustments or extending...

- ▶ Travis was attempting to make muffins to take to a neighbor that had just moved in down the street. The recipe that he was working with required $\frac{1}{4}$ cup of sugar and $\frac{1}{8}$ cup of butter.
- ▶ Travis accidentally put a whole cup of butter in the mix.
 - ▶ What is the ratio of sugar to butter in the original recipe? What amount of sugar does Travis need to put into the mix to have the same ratio of sugar to butter that the original recipe calls for?
 - ▶ If Travis wants to keep the ratios the same as they are in the original recipe, how will the amounts of all the other ingredients for this new mixture compare to the amounts for a single batch of muffins?
 - ▶ The original recipe called for $3\frac{1}{2}$ cup of blueberries. What is the ratio of blueberries to butter in the recipe? How many cups of blueberries are needed in the new enlarged mixture?
- ▶ This got Travis wondering how he could remedy similar mistakes if he were to dump in a single cup of some of the other ingredients. Assume he wants to keep the ratios the same.
 - ▶ How many cups of sugar are needed if a single cup of blueberries is used in the mix?
 - ▶ How many cups of butter are needed if a single cup of sugar is used in the mix?
 - ▶ How many cups of blueberries are needed for each cup of sugar?
- ▶ Commentary:
While the task as written does not explicitly use the term "unit rate," most of the work students will do amounts to finding unit rates. A recipe context works especially well since there are so many different pair-wise ratios to consider.

Cluster Headings, Claims, & Assessment Targets



Cluster Headings, Claims, & Assessment Targets



Cluster Headings, Claims, & Assessment Targets

Cluster Headings

Analyze relationships between them to understand and make predictions

Multistep problems involving ratio and percent will be assessed by tasks in Claims 2 and 4.

Claim 2: Problem Solving

Target A: Apply mathematics to solve well-posed problems arising in everyday life, society, and the workplace. (DOK 2, 3)

Claim 4: Modeling & Data Analysis

Target F: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas). (DOK 1, 2, 3)

Looking at current lessons...

► Find the sale price, retail price, or total meal cost.

- | | |
|--|---|
| ► 1. Original price: \$20
Discount: 30% | 2. Original price: \$80
Discount: 10% |
| ► 3. Wholesale price: \$30
Percent markup: 120% | 4. Wholesale price: \$85
Percent markup: 20% |
| ► 5. Food bill: \$55
Tip: 18% | 6. Food bill: \$38.40
Tip: 15% |

Making adjustments or extend...

Four different stores are having a sale. The signs below show the discounts available at each of the four stores.

Two for the price of one	Buy one and get 25% off the second
Buy two and get 50% off the second one	Three for the price of two

- a. Which of these four different offers gives the biggest percentage price reduction? Explain your reasoning clearly.
- b. Which of these four different offers gives the smallest percentage price reduction? Explain your reasoning clearly.

Commentary:

The purpose of this task is to engage students in Standard for Mathematical Practice 4, *Model with mathematics* and as such, the question as it is worded cannot be answered without making some assumptions. For example, if the items that are purchased do not have the same value, then the price reduction depends on the cost of the items. The answer also depends on how you interpret the meaning of "price reduction" which could be either the absolute reduction or the relative reduction. Consider the four scenarios for purchasing pairs of shoes below.

"Two for the price of one"

Pair 1	Pair 2	Money saved	Fraction of purchase saved
\$16	\$12	\$12	$\frac{1}{2}$
\$16	\$16	\$16	$\frac{1}{2}$

"Three for the price of two"

Pair 1	Pair 2	Pair 2	Money saved	Fraction of purchase saved
\$60	\$40	\$10	\$10	$\frac{1}{3}$

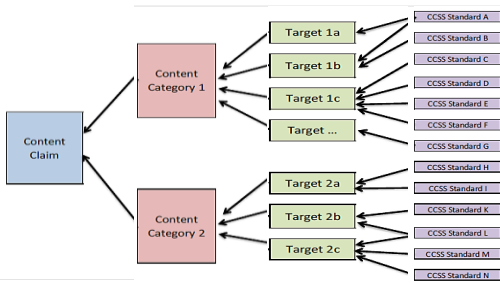
Lesson Plan Resources

- ▶ **Illustrative Mathematics**
 - ▶ <http://www.illustrativemathematics.org/>
- ▶ **MARS**
 - ▶ <http://map.mathshell.org/materials/index.php>
- ▶ **NY Office of Assessment**
 - ▶ <http://www.p12.nysed.gov/apda/common-core-sample-questions/>
- ▶ **EduCore**
 - ▶ <http://educore.ascd.org/>
- ▶ **NCTM's Illuminations**
 - ▶ <http://illuminations.nctm.org/>

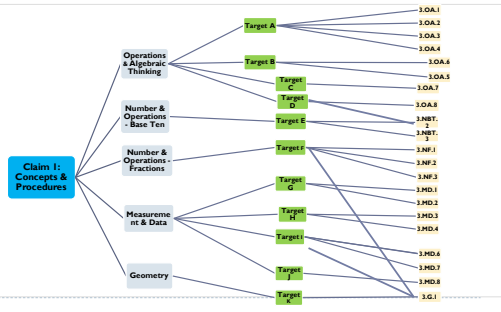
Initial Achievement Level Descriptors & College Readiness Policy

Claims, Assessment Targets & Achievement Level Descriptors

Relationship among Content Claims, Content Categories, Assessment Targets, and Standards (p.8)



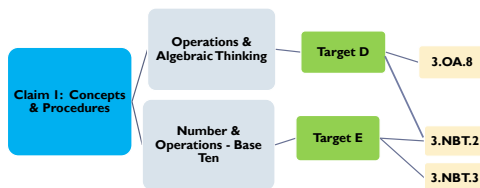
GRADE 3: Relationship among Content Claims,
Content Categories, Assessment Targets, and
Standards



GRADE 3: Relationship among Content Claims, Content
Categories, Assessment Targets, and Standards



GRADE 3: Relationship among Content Claims,
Content Categories, Assessment Targets, and
Standards



[illegible]

<http://www.smarterbalanced.org/achievement-level>

[illegible]

Achievement Level Descriptors

<http://www.smarterbalanced.org/achievement-level-descriptors-and-college-readiness/>



ABOUT	SMARTER BALANCED ASSESSMENTS	K-12 EDUCATION	HIGHER EDUCATION
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Achievement Level Descriptors and College Readiness

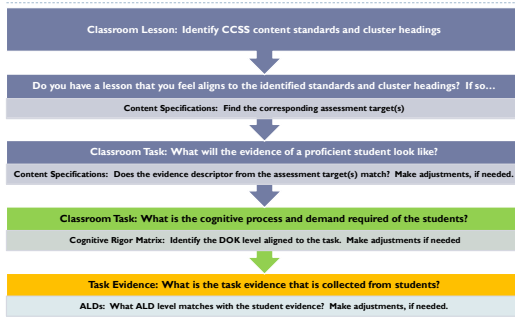
Achievement level descriptors (ALDs) articulate the knowledge, skills, and processes expected of students at different levels of performance on the Smarter Balanced assessments. Smarter Balanced is developing an integrated suite of ALDs aligned with the Common Core State Standards and the Smarter

Balanced assessment claims in *English language arts/literacy* and *mathematics*

Achievement Level Descriptors (ALDs)

What are the implications for instruction?

Implications for Instruction



Where to go from here...

Instructional Implications

Next Steps

- ▶ Become more familiar with all of the documents discussed today.
- ▶ Begin using the documents and the identified implications for instruction when adjusting current activities, lessons, or units to meet the rigor of the CCSS.
- ▶ Visit the websites provided to view sample lesson plans and assessments.

Evaluation

- ▶ Please complete a survey on your experience in participating in Connecting the CCSS-M and Smarter Balanced Assessment, Implications for Instruction: Part I.
 - ▶ *You feedback is greatly appreciated and is used to make adjustments in future trainings!*
- ▶ To access the survey, please visit, <https://www.surveymonkey.com/s/CCSSMSBA>
 - ▶ *Thank you for taking time out of your busy schedule to participate in today's webinar!*

Connecting the CCSS-M & the Smarter Balanced Assessment: Part II

Thursday – February 7, 2013,
3:30PM to 5:00 PM (MST)

- ▶ Smarter Balanced Item & Task Specifications as defined by the Mathematics Content Specifications

Future Module

► *ELA/Literacy Content Specifications and Related Documents*

Presented by:

Diann Roberts – ELA/Literacy Coordinator

Nancy Thomas Price – Formative & Interim Assessment Coordinator



Questions



Contact Information

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